

Supplementary Materials:

Table S1. PCR primers used to clone guinea pig genes for making RNA probes.

Gene	Forward (from 5' to 3')	Reverse (from 5' to 3')	Accession No.
<i>Bmp4</i>	GGAGCTTTCACCACGAAGAA	CCTCTACCACCATCTCCTGATA	XM_023565919
<i>Bmp7</i>	CAGCCGAATTCCGGATCTATAA	AAGCCACTTGGTGCTCAA	XM_003463644
<i>Fgf8</i>	GACTGTGTGTTACGGAGAT	GAAGGGTGGGTAGTTGAGAAA	XM_003474949
<i>Fgfr2</i>	GATGATGCCACGGAGAAAGA	CCATCCTGTGCCTTCCTTTAG	XM_063244860
<i>Hoxd13</i>	TAACCCTCACCTGGCTCTAA	CTCACAGACATTGCCTCTACAA	XM_023561145
<i>Ptch1</i>	GAACCCTCGATCGCATCC	TCCACGTCTTGACGCTCTAT	XM_063227398
<i>Wnt5a</i>	GCCCAGGACCCACTTATTAT	CAACACATCCCTCCAAAGA	XM_013143894

Table S2. QPCR primers for genes in developing genital tubercles of mice and guinea pigs.

	Gene	Forward (from 5' to 3')	Reverse (from 5' to 3')	Accession No.
Guinea pig	<i>Shh</i>	CCAGAACTCCGAGCGATTTA	CCAGGGCATTTAATTTGCCTTAC	XM_003469458
	<i>Bmp4</i>	TCTGTCAATTCAGCATCCC	CCTCTACCACCATCTCCTGATA	XM_023565919
	<i>Fgf8</i>	GCTGAGACTGGTCTCTACATTT	TTGTTCTCCAGCACGATCTC	XM_003474949
	<i>Fgf10</i>	TTGCCTCTGTGGGAAGTATAAG	GTAGGAGGAGGGAGTGATTCT	XM_003470193
	<i>Fgfr2</i>	GTGCTTGGCGGGTAATTCTA	TCTTGGTCGTGGTCTTCATTC	XM_063244866
	<i>Hoxa13</i>	CTGGAACGGCCAAATGTACT	TCTCCGTTTGCCTTGGTAATG	XM_005008377
	<i>Hoxd13</i>	CACTTCGGCAACGGCTATTA	CACGTCCATGTACTTCTCCAC	XM_023561145
	<i>Ctnnb1</i>	CCGTTGTGAACCTGATCAACTA	GACCATCACTGCAGCCTTATTA	XM_063260961
	<i>Actb</i>	TCCCTGGAGAAGAGCTATGA	CAGGATTCCATACCCAGGAAG	NM_001172909
	<i>Gapdh</i>	ACAGTGACAGCCATTCTTCC	AGCCGAACTCATTGTCATACC	XM_063237559
Mouse	<i>Shh</i>	GGATGAGGAAAAACACGGGAGCA	TCATCCAGCCCTCGGTCACT	NM_009170
	<i>Bmp4</i>	GCCGAGCCAACACTGTGAGGA	GATGCTGCTGAGGTTGAAGAGG	NM_007554
	<i>Fgf8</i>	TTGGAAGCAGAGTCCGAGTTCG	GCCGTGTAGTTGTTCTCCAGCA	NM_010205
	<i>Fgf10</i>	ATCACCTCAAGGAGATGTCCG	CGGCAACAACTCCGATTTCCAC	NM_008002
	<i>Fgfr2</i>	GTCTCCGAGTATGAGTTGCCAG	CCACTGCTCAGCCATGACTAC	NM_010207
	<i>Hoxa13</i>	CCCAAAGAGCAGACGCAGCCT	GTGTAAGGCACGCGCTTCTTTC	NM_008264
	<i>Hoxd13</i>	ATCAGCCACAGGGTCCCATTT	GAGCTGCAGTTTGGTGTAAGGC	NM_008275
	<i>Ctnnb1</i>	GTTGCGCTTCATTATGGACTGCC	ATAGCACCTGTTCCCGCAAAG	NM_007614
	<i>Actb</i>	CATTGCTGACAGGATGCAGAAGG	TGCTGGAAGGTGGACAGTGAGG	NM_007393
	<i>Gapdh</i>	CCATCACCATCTCCAGGAGCG	AGAGATGATACCCTTTTGCC	NM_001411843

Table S3. Ct values of selected genes in developing genital tubercles of mice and guinea pigs.

	E12.5 mouse	E23 guinea pig	P-value	E13.5 mouse	E26.5 guinea pig	P-value
<i>Shh</i>	26.25 (0.32)	28.07 (0.55)	0.007	27.32 (0.29)	29.28 (0.58)	0.022
<i>Fgf8</i>	28.72 (0.44)	30.24 (0.71)	0.031	29.66 (0.47)	31.54 (0.82)	0.016
<i>Fgf10</i>	25.41 (0.39)	28.63 (0.65)	0.002	26.18 (0.57)	28.77 (0.63)	0.007
<i>Fgfr2</i>	26.88 (0.35)	28.92 (0.51)	0.001	25.27 (0.42)	27.45 (0.51)	0.004
<i>Hoxd13</i>	24.18 (0.27)	26.44 (0.33)	0.012	23.15 (0.38)	25.79 (0.46)	0.006
<i>Hoxa13</i>	25.57 (0.36)	25.88 (0.48)	0.136	25.62 (0.46)	26.41 (0.55)	0.088
<i>Bmp4</i>	24.88 (0.35)	25.27 (0.24)	0.077	23.83 (0.26)	24.52 (0.42)	0.091
<i>Ctnnb1</i>	22.46 (0.45)	23.15 (0.51)	0.062	23.07 (0.32)	23.68 (0.49)	0.084
<i>Gapdh</i>	20.42 (0.38)	19.77 (0.45)	0.057	21.24 (0.41)	20.56 (0.53)	0.066
<i>Actb</i>	22.27 (0.46)	21.32 (0.53)	0.034	22.63 (0.37)	21.78 (0.61)	0.026

Data are showed as mean (standard error), sample size, n=5. P values less than 0.05 are shown in bold.